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(54) **MANUFACTURE OF ELECTRODE/ION EXCHANGE THIN MEMBRANE CONNECTION BODY AND ELECTRODE/ION EXCHANGE THIN MEMBRANE/ELECTRODE CONNECTION BODY**

(57) Abstract:

**PURPOSE:** To easily form a thin membrane of an ion exchanger on the surface of an electrode by connecting the electrode to an ion exchange membrane on a base board, then peeling the substrate.

**CONSTITUTION:** An ion exchanger is dripped on a base board 9 to form an ion thin membrane exchanger 1a. An electrode 2a made of an electrode catalyst layer is connected to the exchanger 1a by hot pressing, and a base board/ion exchange membrane/electrode connection body is formed. The base board 9 is peeled from this connection body. The exchange membrane 1a is sandwiched by the electrode 2 and the base

board 9 and is not exposed to the outside directly at the time of connection, the ion exchanger thin membrane can be easily formed on the surface of the electrode 2a without reduction of the mechanical strength, and the ion conduction resistance and contact resistance can be reduced. The battery voltage reduction can be suppressed, the electrode size is reduced by the thinning of the film, and moisture can be stably fed.

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